

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

# GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. SEMESTER III–EXAMINATION (Remedial)– WINTER 2015

**Subject code: 733901**

**Date: 04/12/2015**

**Subject Name: Green Energy Engineering**

**Time: 2:30 PM to 5:00 PM**

**Total Marks: 70**

## Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain the importance of Energy analysis. **07**  
(b) Explain in detail: Dilemma of energy Systems **07**
- Q.2** (a) Explain potential of solar energy use in India. **07**  
(b) Describe the energy analysis of solar ponds. **07**  
OR  
(b) Describe the energy analysis of wind energy system. **07**
- Q.3** (a) Discuss adverse impact of energy system. **07**  
(b) Describe essential elements of green energy systems. **07**  
OR
- Q.3** (a) Describe the diversification and localization of energy systems. **07**  
(b) Describe the McCKelvey classification of energy sources. **07**
- Q.4** (a) Describe the merits and demerits of any two renewable energy sources. **07**  
(b) Briefly discuss various principles of energy economics. **07**  
OR
- Q.4** (a) What is energy economics? Explain how it is related with our societal activity. **07**  
(b) Describe the merits and demerits of any two non-renewable energy sources. **07**
- Q.5** (a) Explain the policy towards the electricity in India. **07**  
(b) Discuss the global and Indian trends of energy demand. **07**  
OR
- Q.5** (a) Discuss the case for and against privatization in electricity generation and distribution in India. **07**  
(b) Discuss about determinants of energy demand. **07**

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